

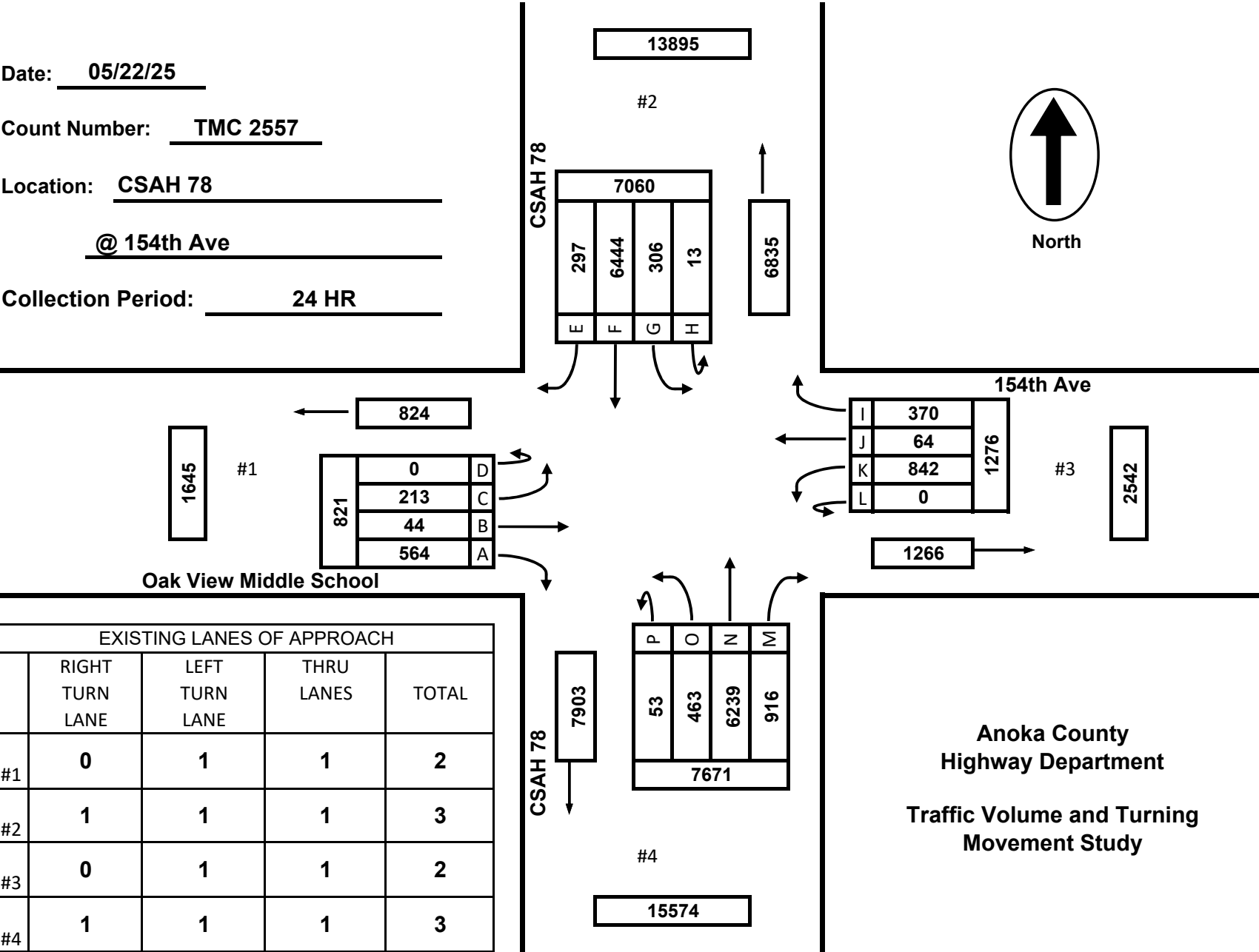
Date: 05/22/25

Count Number: TMC 2557

Location: CSAH 78

@ 154th Ave

Collection Period: 24 HR



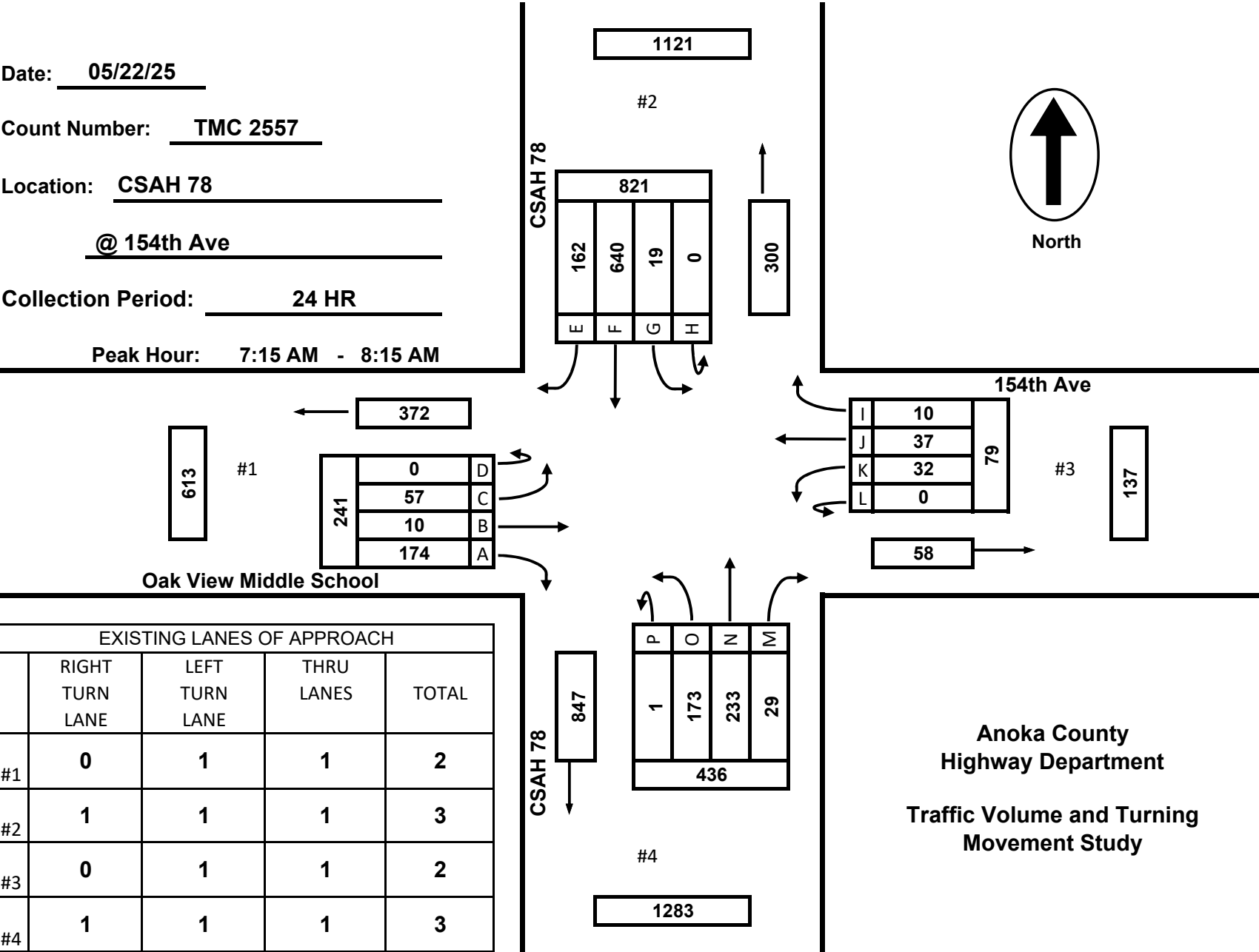
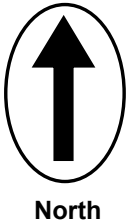
Date: 05/22/25

Count Number: TMC 2557

Location: CSAH 78
@ 154th Ave

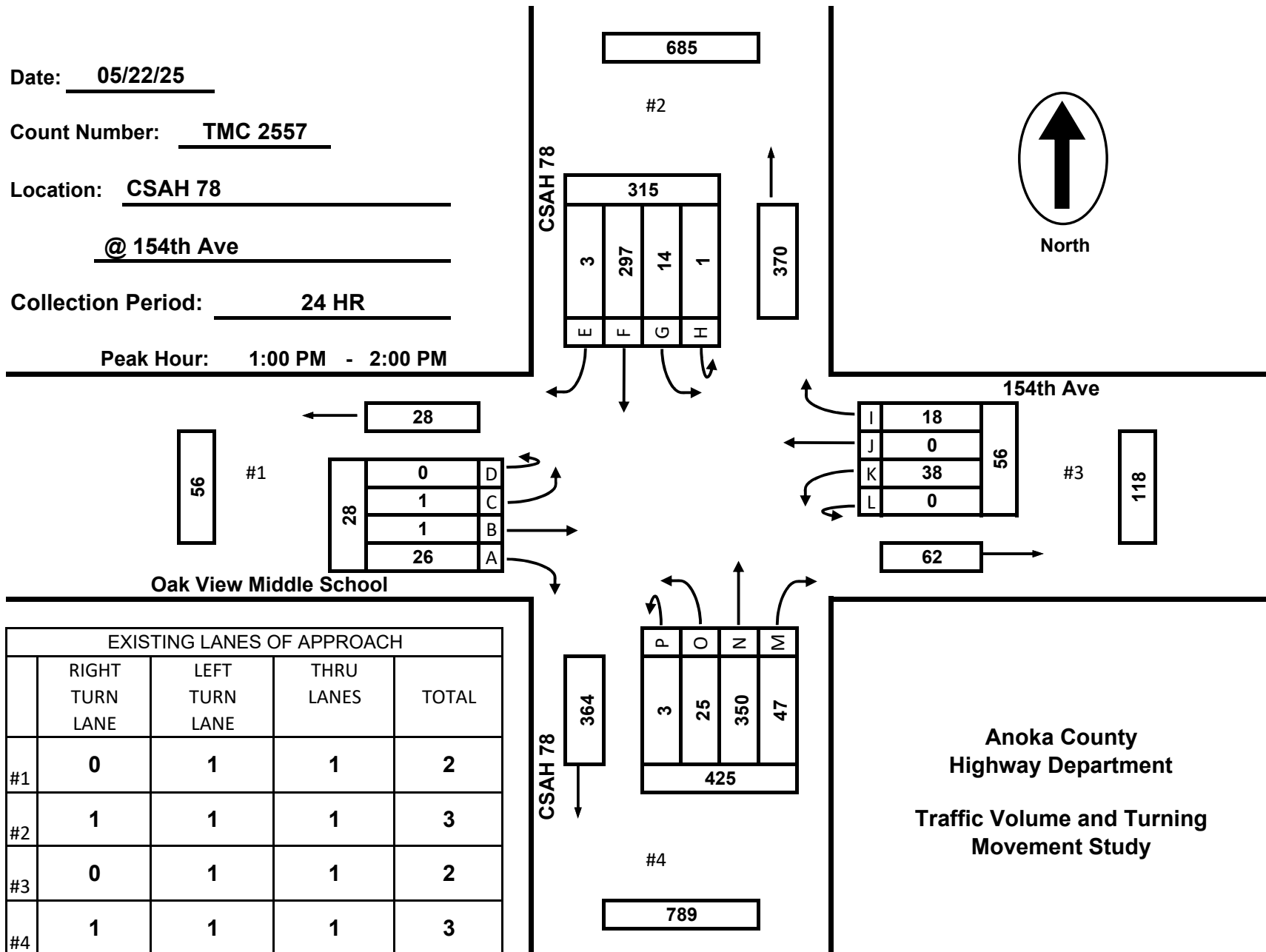
Collection Period: 24 HR

Peak Hour: 7:15 AM - 8:15 AM



Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

Peak Hour: 1:00 PM - 2:00 PM



Peak Hour: 3:45 PM - 4:45 PM

Date: 05/22/25

Count Number: TMC 2557

Location: CSAH 78
@ 154th Ave

Collection Period: 24 HR

Peak Hour: 3:45 PM - 4:45 PM

North

Oak View Middle School

EXISTING LANES OF APPROACH

	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	0	1	1	2
#2	1	1	1	3
#3	0	1	1	2
#4	1	1	1	3

**Anoka County
Highway Department**

**Traffic Volume and Turning
Movement Study**

**TMC 2557 CSAH 78 @ 154th Ave
Andover MN
Thursday, May 22, 2025**

Time	Southbound CSAH 78						Westbound 154th Ave						Northbound CSAH 78						Eastbound Oak View Middle School						VEHICLE TOTAL	
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total		
12:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	7	1	0	8	0	1	0	0	0	0	1	11
12:15 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	10
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	2	0	10	0	0	0	0	0	0	0	10
12:45 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	4
Hourly Total	0	0	8	0	0	8	0	0	0	0	0	0	0	0	23	3	0	26	0	1	0	0	0	0	1	35
1:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	3
1:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	7
1:30 AM	0	0	1	0	0	1	0	0	0	1	0	1	0	0	3	1	0	4	0	0	0	0	0	0	0	6
1:45 AM	0	0	2	0	0	2	0	1	0	0	0	1	0	0	4	0	0	4	0	0	0	0	0	0	0	7
Hourly Total	0	0	5	0	0	5	0	1	0	1	0	2	0	0	15	1	0	16	0	0	0	0	0	0	0	23
2:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	3
2:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	6	1	0	7	0	0	0	0	0	0	0	9
2:30 AM	0	0	2	0	0	2	0	2	0	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	5
2:45 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	6
Hourly Total	0	0	9	0	0	9	0	2	0	0	0	2	0	0	10	2	0	12	0	0	0	0	0	0	0	23
3:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2
3:15 AM	0	0	6	0	0	6	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	8
3:30 AM	0	1	8	0	0	9	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	1	11
3:45 AM	0	0	4	0	0	4	0	2	0	0	0	2	0	0	2	0	0	2	0	0	0	0	0	0	0	8
Hourly Total	0	1	19	0	0	20	0	2	0	0	0	2	0	1	4	1	0	6	0	0	0	1	0	1	1	29
4:00 AM	0	0	11	0	0	11	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	0	0	14
4:15 AM	0	0	16	0	0	16	0	1	0	0	0	1	0	0	4	0	0	4	0	0	0	0	0	0	0	21
4:30 AM	0	0	30	0	0	30	0	0	0	1	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	33
4:45 AM	0	1	35	0	0	36	0	0	0	0	0	0	0	0	6	2	0	8	0	0	0	0	0	0	0	44
Hourly Total	0	1	92	0	0	93	0	1	0	1	0	2	0	0	14	3	0	17	0	0	0	0	0	0	0	112
5:00 AM	0	0	47	0	0	47	0	3	0	0	0	3	0	2	7	0	0	9	0	0	0	0	0	0	0	59
5:15 AM	0	1	82	0	0	83	0	1	0	0	0	1	0	1	5	0	0	6	0	0	0	2	0	0	2	92
5:30 AM	0	2	75	1	0	78	0	5	0	0	1	5	0	0	12	0	2	12	0	0	0	0	0	0	0	95
5:45 AM	0	1	73	0	0	74	0	5	0	1	0	6	0	1	13	2	0	16	0	0	0	0	0	0	0	96
Hourly Total	0	4	277	1	0	282	0	14	0	1	1	15	0	4	37	2	2	43	0	0	0	2	0	2	2	342
6:00 AM	0	0	101	1	0	102	0	5	0	1	2	6	0	0	20	2	0	22	0	0	0	0	0	0	0	130
6:15 AM	0	0	109	2	0	111	0	9	0	0	0	9	1	2	23	0	0	26	0	0	1	0	1	1	1	147
6:30 AM	0	0	130	0	0	130	0	14	0	1	0	15	1	1	36	3	0	41	0	2	0	0	1	2	0	188
6:45 AM	0	1	136	4	0	141	0	13	0	3	1	16	0	2	35	4	1	41	0	0	0	0	1	0	0	198
Hourly Total	0	1	476	7	0	484	0	41	0	5	3	46	2	5	114	9	1	130	0	2	1	0	3	3	3	663
7:00 AM	0	2	192	3	0	197	0	15	0	2	0	17	1	10	47	0	1	58	0	1	0	3	0	4	7	276
7:15 AM	0	2	233	9	0	244	0	12	2	1	0	15	0	17	49	5	0	71	0	1	0	6	0	7	7	337
7:30 AM	0	8	177	27	0	212	0	10	5	1	2	16	0	42	65	9	7	116	0	7	3	21	3	31	7	375
7:45 AM	0	2	113	68	0	183	0	3	9	2	3	14	0	65	68	2	22	135	0	23	2	62	0	87	87	419
Hourly Total	0	14	715	107	0	836	0	40	16	6	5	62	1	134	229	16	30	380	0	32	5	92	3	129	129	1407

**TMC 2557 CSAH 78 @ 154th Ave
Andover MN
Thursday, May 22, 2025**

Time	Southbound CSAH 78						Westbound 154th Ave						Northbound CSAH 78						Eastbound Oak View Middle School						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
8:00 AM	0	7	117	58	0	182	0	7	21	6	2	34	1	49	51	13	23	114	0	26	5	85	0	116	446
8:15 AM	0	1	87	20	0	108	0	7	7	2	0	16	0	20	57	5	8	82	0	21	11	56	0	88	294
8:30 AM	0	0	125	4	0	129	0	4	1	1	0	6	0	8	56	9	0	73	0	1	1	7	0	9	217
8:45 AM	0	5	106	1	0	112	0	5	2	1	0	8	2	5	49	6	0	62	0	2	2	4	2	8	190
Hourly Total	0	13	435	83	0	531	0	23	31	10	2	64	3	82	213	33	31	331	0	50	19	152	2	221	1147
9:00 AM	0	5	129	0	0	134	0	11	1	3	0	15	0	1	71	10	0	82	0	0	0	0	0	0	231
9:15 AM	0	3	120	4	0	127	0	6	0	2	2	8	2	2	73	12	0	89	0	1	0	2	2	3	227
9:30 AM	0	2	98	1	0	101	0	5	0	2	0	7	2	2	63	14	0	81	0	3	0	5	1	8	197
9:45 AM	0	2	99	1	0	102	0	6	0	0	2	6	1	0	78	8	0	87	0	0	0	1	2	1	196
Hourly Total	0	12	446	6	0	464	0	28	1	7	4	36	5	5	285	44	0	339	0	4	0	8	5	12	851
10:00 AM	0	0	90	1	0	91	0	11	2	0	0	13	2	2	72	10	0	86	0	0	0	4	3	4	194
10:15 AM	0	1	81	2	0	84	0	10	0	0	1	10	1	5	78	14	0	98	0	1	1	3	1	5	197
10:30 AM	0	2	90	1	0	93	0	9	0	1	5	10	2	3	71	7	0	83	0	2	1	5	0	8	194
10:45 AM	0	6	75	1	0	82	0	11	1	5	1	17	1	1	67	13	2	82	0	0	0	2	1	2	183
Hourly Total	0	9	336	5	0	350	0	41	3	6	7	50	6	11	288	44	2	349	0	3	2	14	5	19	768
11:00 AM	0	4	82	1	0	87	0	8	1	2	4	11	2	6	57	14	1	79	0	1	0	2	0	3	180
11:15 AM	0	3	75	0	0	78	0	15	0	5	1	20	2	3	69	10	0	84	0	0	1	6	0	7	189
11:30 AM	0	2	77	1	0	80	0	14	1	1	0	16	0	3	60	10	0	73	0	1	0	5	0	6	175
11:45 AM	0	5	85	0	0	90	0	15	0	8	0	23	0	1	68	15	1	84	0	1	0	0	1	1	198
Hourly Total	0	14	319	2	0	335	0	52	2	16	5	70	4	13	254	49	2	320	0	3	1	13	1	17	742
12:00 PM	0	5	80	3	0	88	0	8	0	5	0	13	0	5	89	10	0	104	0	0	0	4	2	4	209
12:15 PM	0	7	75	1	0	83	0	15	1	5	0	21	0	3	72	9	0	84	0	1	0	5	1	6	194
12:30 PM	0	6	78	3	0	87	0	13	0	2	0	15	0	2	71	8	0	81	0	1	0	6	2	7	190
12:45 PM	0	3	72	1	0	76	0	9	1	3	1	13	1	1	87	19	0	108	0	0	1	0	0	1	198
Hourly Total	0	21	305	8	0	334	0	45	2	15	1	62	1	11	319	46	0	377	0	2	1	15	5	18	791
1:00 PM	0	0	82	0	0	82	0	6	0	5	1	11	1	7	87	8	0	103	0	0	0	8	0	8	204
1:15 PM	0	2	76	0	0	78	0	12	0	3	0	15	0	7	89	16	1	112	0	1	0	6	0	7	212
1:30 PM	1	9	71	1	0	82	0	10	0	4	1	14	2	7	81	9	0	99	0	0	0	8	0	8	203
1:45 PM	0	3	68	2	0	73	0	10	0	6	1	16	0	4	93	14	0	111	0	0	1	4	0	5	205
Hourly Total	1	14	297	3	0	315	0	38	0	18	3	56	3	25	350	47	1	425	0	1	1	26	0	28	824
2:00 PM	0	3	67	1	0	71	0	6	0	7	0	13	1	3	88	16	0	108	0	0	1	6	0	7	199
2:15 PM	0	3	80	8	1	91	0	13	1	4	0	18	2	10	104	17	0	133	0	2	0	4	0	6	248
2:30 PM	0	4	90	7	0	101	0	15	0	6	3	21	0	21	144	30	2	195	0	2	0	6	2	8	325
2:45 PM	0	8	78	7	0	93	0	17	2	4	1	23	1	26	114	22	1	163	0	4	0	6	1	10	289
Hourly Total	0	18	315	23	1	356	0	51	3	21	4	75	4	60	450	85	3	599	0	8	1	22	3	31	1061
3:00 PM	1	12	92	10	0	115	0	6	1	14	2	21	0	13	112	22	92	147	0	34	2	47	0	83	366
3:15 PM	1	10	89	9	0	109	0	28	0	9	2	37	3	6	151	31	28	191	0	23	2	34	2	59	396
3:30 PM	1	5	102	1	0	109	0	11	0	9	1	20	1	5	136	21	2	163	0	7	1	22	0	30	322
3:45 PM	0	7	112	3	0	122	0	20	0	2	3	22	2	9	161	28	3	200	0	8	0	12	0	20	364
Hourly Total	3	34	395	23	0	455	0	65	1	34	8	100	6	33	560	102	125	701	0	72	5	115	2	192	1448

TMC 2557 CSAH 78 @ 154th Ave
Andover MN
Thursday, May 22, 2025

Time	Southbound CSAH 78						Westbound 154th Ave						Northbound CSAH 78						Eastbound Oak View Middle School						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
4:00 PM	0	12	111	3	0	126	0	25	0	22	2	47	3	8	155	29	22	195	0	7	1	13	0	21	389
4:15 PM	0	6	118	3	0	127	0	21	0	7	0	28	0	8	195	34	8	237	0	3	0	17	1	20	412
4:30 PM	0	9	119	0	0	128	0	25	1	11	4	37	0	0	173	21	0	194	0	1	0	1	0	2	361
4:45 PM	1	3	113	0	0	117	0	14	0	14	4	28	2	0	188	25	7	215	0	1	0	1	2	2	362
Hourly Total	1	30	461	6	0	498	0	85	1	54	10	140	5	16	711	109	37	841	0	12	1	32	3	45	1524
5:00 PM	0	5	91	0	0	96	0	20	1	13	4	34	0	2	200	27	2	229	0	0	1	1	0	2	361
5:15 PM	0	6	117	0	0	123	0	27	1	11	1	39	1	4	137	21	5	163	0	1	1	6	1	8	333
5:30 PM	0	6	114	4	0	124	0	25	0	9	0	34	0	9	180	22	0	211	0	2	0	2	1	4	373
5:45 PM	1	11	106	6	0	124	0	20	1	8	2	29	2	19	157	33	0	211	0	0	0	0	3	0	364
Hourly Total	1	28	428	10	0	467	0	92	3	41	7	136	3	34	674	103	7	814	0	3	2	9	5	14	1431
6:00 PM	0	7	98	0	0	105	0	19	1	11	2	31	0	6	134	17	4	157	0	0	0	1	0	1	294
6:15 PM	0	6	73	0	0	79	0	21	0	10	0	31	1	2	131	17	3	151	0	0	0	0	0	0	261
6:30 PM	0	6	77	0	0	83	0	16	0	9	2	25	0	4	142	23	0	169	0	0	0	0	2	0	277
6:45 PM	2	5	71	10	0	88	0	29	0	17	0	46	0	11	81	17	0	109	0	1	0	1	2	2	245
Hourly Total	2	24	319	10	0	355	0	85	1	47	4	133	1	23	488	74	7	586	0	1	0	2	4	3	1077
7:00 PM	0	8	63	1	0	72	0	12	0	9	0	21	0	1	105	15	0	121	0	8	3	30	3	41	255
7:15 PM	2	10	80	0	0	92	0	18	0	9	0	27	1	1	95	16	0	113	0	1	0	2	2	3	235
7:30 PM	2	7	67	1	0	77	0	16	0	13	0	29	1	2	116	12	0	131	0	0	0	0	0	0	237
7:45 PM	0	8	50	1	0	59	0	16	0	10	0	26	0	1	91	14	1	106	0	0	0	2	2	2	193
Hourly Total	4	33	260	3	0	300	0	62	0	41	0	103	2	5	407	57	1	471	0	9	3	34	7	46	920
8:00 PM	0	4	64	0	0	68	0	10	0	6	2	16	0	1	112	15	3	128	0	9	2	27	0	38	250
8:15 PM	0	8	79	0	0	87	0	13	0	6	1	19	0	0	103	13	2	116	0	0	0	0	0	0	222
8:30 PM	0	10	88	0	0	98	0	13	0	9	0	22	2	0	74	14	2	90	0	0	0	0	0	0	210
8:45 PM	0	4	58	0	0	62	0	9	0	5	0	14	0	0	78	6	1	84	0	0	0	0	0	0	160
Hourly Total	0	26	289	0	0	315	0	45	0	26	3	71	2	1	367	48	8	418	0	9	2	27	0	38	842
9:00 PM	1	1	43	0	0	45	0	7	0	6	0	13	1	0	82	9	1	92	0	0	0	0	0	0	150
9:15 PM	0	2	35	0	0	37	0	2	0	3	0	5	0	0	40	5	0	45	0	0	0	0	0	0	87
9:30 PM	0	3	30	0	0	33	0	5	0	3	0	8	2	0	51	7	0	60	0	0	0	0	0	0	101
9:45 PM	0	1	18	0	0	19	0	2	0	2	0	4	1	0	37	4	1	42	0	0	0	0	0	0	65
Hourly Total	1	7	126	0	0	134	0	16	0	14	0	30	4	0	210	25	2	239	0	0	0	0	0	0	403
10:00 PM	0	1	18	0	0	19	0	6	0	1	0	7	1	0	34	3	0	38	0	0	0	0	0	0	64
10:15 PM	0	0	21	0	0	21	0	4	0	3	0	7	0	0	35	3	1	38	0	0	0	0	0	0	66
10:30 PM	0	0	15	0	0	15	0	1	0	0	0	1	0	0	47	1	0	48	0	0	0	0	0	0	64
10:45 PM	0	1	14	0	0	15	0	0	0	1	0	1	0	0	35	2	0	37	0	0	0	0	0	0	53
Hourly Total	0	2	68	0	0	70	0	11	0	5	0	16	1	0	151	9	1	161	0	0	0	0	0	0	247
11:00 PM	0	0	20	0	0	20	0	1	0	1	0	2	0	0	18	1	0	19	0	0	0	0	0	0	41
11:15 PM	0	0	12	0	0	12	0	0	0	0	0	0	0	0	18	0	0	18	0	1	0	0	0	1	31
11:30 PM	0	0	7	0	0	7	0	0	0	0	0	0	0	0	14	2	0	16	0	0	0	0	0	0	23
11:45 PM	0	0	5	0	0	5	0	1	0	0	0	1	0	0	16	1	0	17	0	0	0	0	0	0	23
Hourly Total	0	0	44	0	0	44	0	2	0	1	0	3	0	0	66	4	0	70	0	1	0	0	0	1	118
DAILY TOTAL	13	306	6444	297	1	7060	0	842	64	370	67	1276	53	463	6239	916	260	7671	0	213	44	564	48	821	16828
Cars	13	297	6288	297	1	6895	0	838	64	368	38	1270	53	461	6125	909	183	7548	0	213	44	562	43	819	16532
Heavy Vehicles	0	9	156	0	0	165	0	4	0	2	29	6	0	2	114	7	77	123	0	0	0	2	5	2	296
Heavy Vehicle %	0.00%	2.94%	2.42%	0.00%	0.00%	2.34%	0.00%	0.48%	0.00%	0.54%	43.28%	0.47%	0.00%	0.43%	1.83%	0.76%	29.62%	1.60%	0.00%	0.00%	0.00%	0.35%	10.42%	0.24%	1.76%

**TMC 2557 CSAH 78 @ 154th Ave
Andover MN
Thursday, May 22, 2025
AM Peak Hour (00:00 to 10:00)**

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
7:15 AM	0	2	233	9	0	244	0	12	2	1	0	15	0	17	49	5	0	71	0	1	0	6	0	7	337
7:30 AM	0	8	177	27	0	212	0	10	5	1	2	16	0	42	65	9	7	116	0	7	3	21	3	31	375
7:45 AM	0	2	113	68	0	183	0	3	9	2	3	14	0	65	68	2	22	135	0	23	2	62	0	87	419
8:00 AM	0	7	117	58	0	182	0	7	21	6	2	34	1	49	51	13	23	114	0	26	5	85	0	116	446
Peak Hour Total	0	19	640	162	0	821	0	32	37	10	7	79	1	173	233	29	52	436	0	57	10	174	3	241	1577
Peak Hour Heavy Vehicles	0	2	25	0	0	27	0	0	0	0	4	0	0	0	16	1	0	17	0	0	0	0	0	0	44
Peak Hour Heavy Vehicles %	0.00%	10.53%	3.91%	0.00%	0.00%	3.29%	0.00%	0.00%	0.00%	0.00%	57.14%	0.00%	0.00%	0.00%	6.87%	3.45%	0.00%	3.90%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.79%
PHF	0.000	0.594	0.687	0.596	0.000	0.841	0.000	0.667	0.440	0.417	0.583	0.581	0.250	0.665	0.857	0.558	0.565	0.807	0.000	0.548	0.500	0.512	0.250	0.519	0.884

Mid Peak Hour (10:00 - 14:00)																									
Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
1:00 PM	0	0	82	0	0	82	0	6	0	5	1	11	1	7	87	8	0	103	0	0	0	8	0	8	204
1:15 PM	0	2	76	0	0	78	0	12	0	3	0	15	0	7	89	16	1	112	0	1	0	6	0	7	212
1:30 PM	1	9	71	1	0	82	0	10	0	4	1	14	2	7	81	9	0	99	0	0	0	8	0	8	203
1:45 PM	0	3	68	2	0	73	0	10	0	6	1	16	0	4	93	14	0	111	0	0	1	4	0	5	205
Peak Hour Total	1	14	297	3	0	315	0	38	0	18	3	56	3	25	350	47	1	425	0	1	1	26	0	28	824
Peak Hour Heavy Vehicles	0	0	6	0	0	6	0	0	0	0	3	0	0	0	2	0	0	2	0	0	0	0	0	0	8
Peak Hour Heavy Vehicles %	0.00%	0.00%	2.02%	0.00%	0.00%	1.90%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.57%	0.00%	0.00%	0.47%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.97%
PHF	0.250	0.389	0.905	0.375	0.000	0.960	0.000	0.792	0.000	0.750	0.750	0.875	0.375	0.893	0.941	0.734	0.250	0.949	0.000	0.250	0.250	0.813	0.000	0.875	0.972

PM Peak Hour (14:00 - 24:00)																									
Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
3:45 PM	0	7	112	3	0	122	0	20	0	2	3	22	2	9	161	28	3	200	0	8	0	12	0	20	364
4:00 PM	0	12	111	3	0	126	0	25	0	22	2	47	3	8	155	29	22	195	0	7	1	13	0	21	389
4:15 PM	0	6	118	3	0	127	0	21	0	7	0	28	0	8	195	34	8	237	0	3	0	17	1	20	412
4:30 PM	0	9	119	0	0	128	0	25	1	11	4	37	0	0	173	21	0	194	0	1	0	1	0	2	361
Peak Hour Total	0	34	460	9	0	503	0	91	1	42	9	134	5	25	684	112	33	826	0	19	1	43	1	63	1526
Peak Hour Heavy Vehicles	0	0	15	0	0	15	0	0	0	0	1	0	0	0	9	0	0	9	0	0	0	0	0	0	24
Peak Hour Heavy Vehicles %	0.00%	0.00%	3.26%	0.00%	0.00%	2.98%	0.00%	0.00%	0.00%	0.00%	11.11%	0.00%	0.00%	0.00%	1.32%	0.00%	0.00%	1.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.57%
PHF	0.000	0.708	0.966	0.750	0.000	0.982	0.000	0.910	0.250	0.477	0.563	0.713	0.417	0.694	0.877	0.824	0.375	0.871	0.000	0.594	0.250	0.632	0.250	0.750	0.926

Total Vehicles On Leg			13895		
Vehicles Entering 7060 Intersection			Vehicles Exiting 6835 Intersection		
Southbound					
Cars	297	6288	297	13	1
Heavy	0	156	9	0	0
Total	297	6444	306	13	1



Daily Volumes

Total Vehicles on Leg 1645	Entering Intersection 821	Eastbound	Cars	Heavy	Total
			43	5	48
			0	0	0
	Exiting Intersection 824		213	0	213
			44	0	44
			562	2	564

Cars	Heavy	Total	Westbound	Entering Intersection 1276	Total Vehicles on Leg 2542
368	2	370			
64	0	64			
838	4	842		Exiting Intersection 1266	
0	0	0			
38	29	67			

Cars	183	53	461	6125	909
Heavy	77	0	0	14	0
Total	260	53	463	6239	916
Northbound					
Vehicles Entering 7671 Intersection			Vehicles Exiting 7903 Intersection		
Total Vehicles On Leg			15574		

TMC 2557 CSAH 78 @ 154th Ave
Andover MN
Thursday, May 22, 2025

Time	Southbound Heavy CSAH 78						Westbound Heavy 154th Ave						Northbound Heavy CSAH 78						Eastbound Heavy Oak View Middle School						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
4:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
5:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1
5:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2	0	2	3
5:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
5:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3	0	0	0	2	0	2	5
6:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	3
6:15 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	6
6:30 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	6
6:45 AM	0	0	2	0	0	2	0	0	0	0	1	0	0	0	3	0	0	3	0	0	0	0	0	0	5
Hourly 'Heavy Vehicles'	0	0	10	0	0	10	0	0	0	0	1	0	0	0	10	0	0	10	0	0	0	0	0	0	20
7:00 AM	0	0	5	0	0	5	0	1	0	1	0	2	0	0	6	0	0	6	0	0	0	0	0	0	13
7:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	7
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	1	5	0	0	0	0	0	0	5
7:45 AM	0	0	4	0	0	4	0	0	0	0	3	0	0	0	3	0	11	3	0	0	0	0	0	0	7
Hourly 'Heavy Vehicles'	0	0	11	0	0	11	0	1	0	1	3	2	0	0	19	0	12	19	0	0	0	0	0	0	32

TMC 2557 CSAH 78 @ 154th Ave
Andover MN
Thursday, May 22, 2025

Time	Southbound Heavy CSAH 78						Westbound Heavy 154th Ave						Northbound Heavy CSAH 78						Eastbound Heavy Oak View Middle School						VEHICLE 'Heavy Vehicles'
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	
8:00 AM	0	2	19	0	0	21	0	0	0	0	1	0	0	0	3	1	17	4	0	0	0	0	0	0	25
8:15 AM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
8:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	4
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	3
Hourly 'Heavy Vehicles'	0	2	27	0	0	29	0	0	0	0	1	0	0	0	8	1	23	9	0	0	0	0	0	0	38
9:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	4	1	0	5	0	0	0	0	0	0	7
9:15 AM	0	0	14	0	0	14	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	16
9:30 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	4
9:45 AM	0	0	1	0	0	1	0	0	0	0	2	0	0	0	3	0	0	3	0	0	0	0	0	0	4
Hourly 'Heavy Vehicles'	0	0	20	0	0	20	0	0	0	0	2	0	0	0	10	1	0	11	0	0	0	0	0	0	31
10:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3
10:15 AM	0	0	0	0	0	0	0	1	0	0	1	0	0	0	3	1	0	4	0	0	0	0	0	0	5
10:30 AM	0	0	2	0	0	2	0	0	0	0	3	0	0	0	1	0	0	1	0	0	0	0	0	0	3
10:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	3
Hourly 'Heavy Vehicles'	0	0	5	0	0	5	0	1	0	0	4	0	0	0	7	1	0	8	0	0	0	0	0	0	14
11:00 AM	0	1	2	0	0	3	0	0	0	0	3	0	0	0	1	0	0	1	0	0	0	0	0	0	4
11:15 AM	0	0	4	0	0	4	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	7
11:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3
11:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	1	3	0	0	0	0	0	0	4
Hourly 'Heavy Vehicles'	0	1	9	0	0	10	0	1	0	0	3	0	0	0	7	0	1	7	0	0	0	0	0	0	18
12:00 PM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	1	0	7
12:15 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	4
12:30 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	4
12:45 PM	0	0	1	0	0	1	0	0	0	0	1	0	0	0	2	0	0	2	0	0	0	0	0	0	3
Hourly 'Heavy Vehicles'	0	0	12	0	0	12	0	0	0	0	1	0	0	0	6	0	0	6	0	0	0	0	1	0	18
1:00 PM	0	0	2	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
1:30 PM	0	0	2	0	0	2	0	0	0	0	1	0	0	0	2	0	0	2	0	0	0	0	0	0	4
1:45 PM	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Hourly 'Heavy Vehicles'	0	0	6	0	0	6	0	0	0	0	3	0	0	0	2	0	1	2	0	0	0	0	0	0	8
2:00 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	5
2:15 PM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	8
2:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	8	1	1	9	0	0	0	0	0	0	9
2:45 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	2	1	3	0	0	0	0	0	0	5
Hourly 'Heavy Vehicles'	0	0	9	0	0	9	0	0	0	0	1	0	0	0	15	3	2	18	0	0	0	0	0	0	27
3:00 PM	0	4	15	0	0	19	0	0	0	0	2	0	0	0	0	0	17	0	0	0	0	0	0	0	19
3:15 PM	0	2	1	0	0	3	0	0	0	0	0	0	0	0	2	0	3	2	0	0	0	0	0	0	5
3:30 PM	0	0	2	0	0	2	0	0	0	1	1	0	0	0	6	0	0	6	0	0	0	0	0	0	9
3:45 PM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	2	0	1	2	0	0	0	0	0	0	7
Hourly 'Heavy Vehicles'	0	6	23	0	0	29	0	0	0	1	3	0	0	0	10	0	21	10	0	0	0	0	0	0	40

**TMC 2557 CSAH 78 @ 154th Ave
Andover MN
Thursday, May 22, 2025**

Time	Southbound Heavy CSAH 78						Westbound Heavy 154th Ave						Northbound Heavy CSAH 78						Eastbound Heavy Oak View Middle School						VEHICLE 'Heavy Vehicles'
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	
4:00 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	3	0	3	3	0	0	0	0	0	0	7
4:15 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	5	1	0	0	0	0	0	0	3
4:30 PM	0	0	4	0	0	4	0	0	0	0	1	0	0	0	3	0	0	3	0	0	0	0	0	0	7
4:45 PM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Hourly 'Heavy Vehicles'	0	0	15	0	0	15	0	0	0	0	1	0	0	0	7	0	8	7	0	0	0	0	0	0	22
5:00 PM	0	0	2	0	0	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	2
5:15 PM	0	0	2	0	0	2	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	3
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	4	0	0	4	0	0	0	0	1	0	4
Hourly 'Heavy Vehicles'	0	0	4	0	0	4	0	0	0	0	4	0	0	0	6	0	1	6	0	0	0	0	2	0	10
6:00 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	2	1	0	0	0	0	0	0	1
6:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6:30 PM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	2
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	1	0	0	2	1	0	0	1	1	2	2	0	0	0	0	0	0	4
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
7:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0
8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
8:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1
8:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
8:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	4	1	0	0	0	0	0	0	2
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
9:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	3
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY 'Heavy Vehicles'	0	9	156	0	0	165	0	4	0	2	29	6	0	2	114	7	77	123	0	0	0	2	5	2	296

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2557

Study Date : 06/02/2025

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 78

Number of Lanes : 2+

Total Approach Volume: 7,671

Southbound: CSAH 78

Number of Lanes :2+

Total Approach Volume: 7,060

Minor Street Approaches

Eastbound: Oak View Middle School

Number of Lanes :1

Total Approach Volume: 821

Westbound: 154th Ave

Number of Lanes :1

Total Approach Volume: 1,276

Warrant Summary (Rural Values Apply)

Warrant 1 - Eight Hour Vehicular Volumes.....Satisfied

Warrant 1A - Minimum Vehicular Volume.....Not Satisfied

Required volumes reached for 7 hours, 8 are needed

Warrant 1B - Interruption of Continuous Traffic.....Satisfied

Required volumes reached for 13 hours, 8 are needed

Warrant 1C - Combination of Warrants.....Satisfied

Required 1A volumes reached for 8 hours, 8 are needed

Required 1B volumes reached for 14 hours, 8 are needed

Warrant 2 - Four Hour Volumes.....Satisfied

Number of hours (8) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

Warrant 3A - Peak Hour Delay.....Satisfied

Number of one hour periods (26) volumes exceed minimum >= required (1). Delay data not evaluated.

Warrant 3B - Peak Hour Volumes.....Satisfied

Volumes exceed minimums for at least one hour period.

Warrant 4 - Pedestrian Volumes.....Not Evaluated

Warrant 5 - School Crossing.....Not Evaluated

Warrant 6 - Coordinated Signal System.....Not Evaluated

Warrant 7 - Crash Experience.....Not Evaluated

Warrant 8 - Roadway Network.....Not Evaluated

Warrant 9 - Intersection Near a Grade Crossing.....Not Evaluated

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2557

Study Date : 06/02/2025

Warrant 1A - Minimum Volumes

Description

Intended for sites where the volume of intersecting traffic is the principal reason for consideration of a signal installation.

Summary

Only 7 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70 % applied
Veh/Hr Major = **420**

Veh/Hr Minor = **105**

Major Road						Minor Road		
CSAH 78						Oak View Middle School		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:15 - 17:15	875	+	468	=	1343	26	127	Yes
17:15 - 18:15	742	+	476	=	1218	13	133	Yes
07:00 - 08:00	380	+	836	=	1216	129	62	Yes
15:15 - 16:15	749	+	466	=	1215	130	126	Yes
14:15 - 15:15	638	+	400	=	1038	107	83	Yes
18:15 - 19:15	550	+	322	=	872	43	123	Yes
08:00 - 09:00	331	+	531	=	862	221	64	Yes
06:45 - 07:45	286	+	794	=	1080	42	64	No
14:00 - 15:00	599	+	356	=	955	31	75	No
06:30 - 07:30	211	+	712	=	923	13	63	No
13:45 - 14:45	547	+	336	=	883	26	68	No
09:00 - 10:00	339	+	464	=	803	12	36	No
19:15 - 20:15	478	+	296	=	774	43	98	No
19:30 - 20:30	481	+	291	=	772	40	90	No
13:30 - 14:30	451	+	317	=	768	26	61	No
09:15 - 10:15	343	+	421	=	764	16	34	No
19:45 - 20:45	440	+	312	=	752	40	83	No
06:15 - 07:15	166	+	579	=	745	7	57	No
13:00 - 14:00	425	+	315	=	740	28	56	No
12:45 - 13:45	422	+	318	=	740	24	53	No
13:15 - 14:15	430	+	304	=	734	27	58	No
20:00 - 21:00	418	+	315	=	733	38	71	No
09:30 - 10:30	352	+	378	=	730	18	36	No
12:30 - 13:30	404	+	323	=	727	23	54	No
09:45 - 10:45	354		370		724	18	39	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2557

Study Date : 06/02/2025

Warrant 1B - Interruption of Continuous Traffic

Description

Intended for sites where the volume of the major street is so heavy that traffic on the minor street suffers excessive delay or hazard.

Summary

13 one hour periods meet minimums.
Warrant IS met.

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70 % applied
Veh/Hr Major = **630**

Veh/Hr Minor = **53**

Major Road						Minor Road		
CSAH 78						Oak View Middle School		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
15:30 - 16:30	795	+	484	=	1279	91	117	Yes
16:30 - 17:30	801	+	464	=	1265	14	138	Yes
07:15 - 08:15	436	+	821	=	1257	241	79	Yes
17:30 - 18:30	730	+	432	=	1162	5	125	Yes
14:30 - 15:30	696	+	418	=	1114	160	102	Yes
18:30 - 19:30	512	+	335	=	847	46	119	Yes
08:15 - 09:15	299	+	483	=	782	105	45	Yes
19:30 - 20:30	481	+	291	=	772	40	90	Yes
13:30 - 14:30	451	+	317	=	768	26	61	Yes
06:15 - 07:15	166	+	579	=	745	7	57	Yes
12:30 - 13:30	404	+	323	=	727	23	54	Yes
11:30 - 12:30	345	+	341	=	686	17	73	Yes
10:30 - 11:30	328	+	340	=	668	20	58	Yes
09:15 - 10:15	343	+	421	=	764	16	34	No
09:30 - 10:30	352	+	378	=	730	18	36	No
09:45 - 10:45	354	+	370	=	724	18	39	No
10:00 - 11:00	349	+	350	=	699	19	50	No
10:15 - 11:15	342	+	346	=	688	18	48	No
06:00 - 07:00	130	+	484	=	614	3	46	No
20:30 - 21:30	311	+	242	=	553	0	54	No
05:45 - 06:45	105	+	417	=	522	3	36	No
20:45 - 21:45	281	+	177	=	458	0	40	No
05:30 - 06:30	76	+	365	=	441	1	26	No
05:15 - 06:15	56	+	337	=	393	2	18	No
21:00 - 22:00	239		134		373	0	30	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2557

Study Date : 06/02/2025

Warrant 1C Combination of Warrants

Description

Intended for sites where the traffic volumes don't meet individual warrants but where Warrants 1A and 1B are both met to 80% of their stated values.

Summary

8 hours meet 1A minimums.
14 hours meet 1B minimums.
Warrant IS met.

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70% applied
Warrant 1A 1B
Veh/Hr Major = **336 504**

Veh/Hr Minor = **84 42**

Major Road						Minor Road				
CSAH 78						Oak View Middle School				
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?		
16:15 - 17:15	875	+	468	=	1343	26	127	Yes		
17:15 - 18:15	742	+	476	=	1218	13	133	Yes		
07:00 - 08:00	380	+	836	=	1216	129	62	Yes		
15:15 - 16:15	749	+	466	=	1215	130	126	Yes		
14:15 - 15:15	638	+	400	=	1038	107	83	Yes		
18:15 - 19:15	550	+	322	=	872	43	123	Yes		
08:00 - 09:00	331	+	531	=	862	221	64	Yes		
19:15 - 20:15	478	+	296	=	774	43	98	Yes		
06:45 - 07:45	286	+	794	=	1080	42	64	No		
14:00 - 15:00	599	+	356	=	955	31	75	No		
06:30 - 07:30	211	+	712	=	923	13	63	No		
13:45 - 14:45	547		336		883	26	68	No		

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?	
16:00 - 17:00	841	+	498	=	1339	45	140	Yes	
17:00 - 18:00	814	+	467	=	1281	14	136	Yes	
07:00 - 08:00	380	+	836	=	1216	129	62	Yes	
15:00 - 16:00	701	+	455	=	1156	192	100	Yes	
14:00 - 15:00	599	+	356	=	955	31	75	Yes	
18:00 - 19:00	586	+	355	=	941	3	133	Yes	
08:00 - 09:00	331	+	531	=	862	221	64	Yes	
19:00 - 20:00	471	+	300	=	771	46	103	Yes	
13:00 - 14:00	425	+	315	=	740	28	56	Yes	
20:00 - 21:00	418	+	315	=	733	38	71	Yes	
12:00 - 13:00	377	+	334	=	711	18	62	Yes	
10:00 - 11:00	349	+	350	=	699	19	50	Yes	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2557

Study Date : 06/02/2025

Warrant 2 - Four Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during any four hours of the day is the principal reason for consideration of a signal installation.

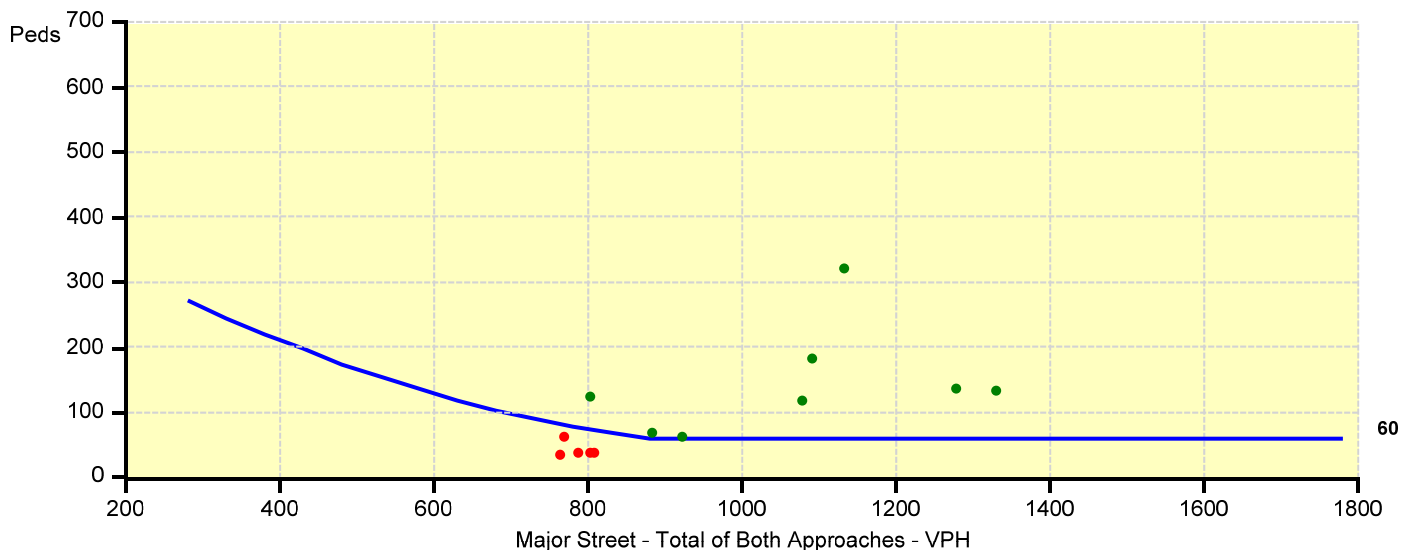
Summary

8 one hour periods meet minimums.
Warrant IS met.

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **1**

Major Road CSAH 78						Minor Road Oak View Middle School		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
15:45 - 16:45	826	+	503	=	1329	63	134	Yes
16:45 - 17:45	818	+	460	=	1278	16	135	Yes
07:30 - 08:30	447	+	685	=	1132	322	80	Yes
14:45 - 15:45	664	+	426	=	1090	182	101	Yes
17:45 - 18:45	688	+	391	=	1079	1	116	Yes
06:30 - 07:30	211	+	712	=	923	13	63	Yes
13:45 - 14:45	547	+	336	=	883	26	68	Yes
18:45 - 19:45	474	+	329	=	803	46	123	Yes
08:30 - 09:30	306	+	502	=	808	20	37	No
09:00 - 10:00	339	+	464	=	803	12	36	No
08:45 - 09:45	314	+	474	=	788	19	38	No
13:30 - 14:30	451	+	317	=	768	26	61	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2557

Study Date : 06/02/2025

Warrant 3B - Peak Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during one hour of the day is the principal reason for consideration of a signal installation.

Summary

21 one hour periods meet minimums.
Warrant IS met.

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **1**

Major Road						Minor Road		
CSAH 78						Oak View Middle School		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:15 - 17:15	875	+	468	=	1343	26	127	Yes
16:00 - 17:00	841	+	498	=	1339	45	140	Yes
15:45 - 16:45	826	+	503	=	1329	63	134	Yes
17:00 - 18:00	814	+	467	=	1281	14	136	Yes
15:30 - 16:30	795	+	484	=	1279	91	117	Yes
16:45 - 17:45	818	+	460	=	1278	16	135	Yes
16:30 - 17:30	801	+	464	=	1265	14	138	Yes
07:15 - 08:15	436	+	821	=	1257	241	79	Yes
17:15 - 18:15	742	+	476	=	1218	13	133	Yes
07:00 - 08:00	380	+	836	=	1216	129	62	Yes
15:15 - 16:15	749	+	466	=	1215	130	126	Yes
17:30 - 18:30	730	+	432	=	1162	5	125	Yes

